Critical Quality Educator Shortages

Identification of Schools and Licensure and Endorsement Areas Impacted by Critical Quality Educator Shortages

for the 2008-2009 school year

Report to the Board of Public Education November 2008

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Background

Senate Bill 2 of the May 2007 special legislative session authorized a Quality Educator Loan Assistance Program administered by the Board of Regents through the Office of the Commissioner of Higher Education. The program provides for the direct repayment of educational loans of eligible quality educators for up to 4 years. The total annual loan repayment assistance may not exceed \$3,000. Educational loans are loans made by a federal loan program, excluding federal Parents Loans for Undergraduate Students (PLUS) loans.

In addition to authorizing the program, the statute defines a *quality educator* as a full-time equivalent educator who holds a valid educator license or is a licensed professional providing services to students in a school district, an education cooperative, the Montana School for the Deaf and Blind, the Montana Youth Challenge Program or a state youth correctional facility.¹

The legislative appropriation for quality educator loan assistance is \$350,000 in FY 2008 and \$700,000 in FY 2009 for a total of \$1,050,000 for the 2009 biennium. This funding level will support loan assistance to approximately 100-120 educators in FY2008 and 200-240 educators in FY2009.

Critical Quality Educator Shortages

Section 20-4-503, MCA directs the Board of Public Education, in consultation with the Office of Public Instruction, to identify:

- (a) specific schools that are impacted by critical quality educator shortages; and
- (b) within the schools identified in (a), the specific quality educator licensure or endorsement areas that are impacted by critical quality educator shortages.

Quality educators working in schools that are identified as impacted schools <u>and</u> teaching in licensure or endorsement areas that are impacted by critical quality educator shortages are eligible for loan repayment assistance.

The Board of Public Education is required to publish an annual report listing the schools and the licensure or endorsement areas identified as impacted by critical quality educator shortages, explaining the reasons that specific schools and licensure or endorsement areas have been identified and providing information regarding any success in retention.

Methodology for Identifying Critical Quality Educator Shortages

The methodology used by the OPI for identifying critical quality educator shortages includes a two-step process. The first step is to identify the schools that are impacted by critical shortages. The second step is to identify specific licensure and endorsement areas.

¹ The complete definition of a Quality Educator is in 20-4-501(4), MCA.

Identification of Impacted Schools

The OPI has developed a rubric for scoring the needs of schools based on three factors: rural isolation, economic disadvantage, and student achievement. These three factors are weighted to set a threshold for identifying "impacted schools."

To measure rural isolation, economic disadvantage, and low student achievement, the OPI developed a 24 point rubric based on locale code, the percentage of students eligible for free and reduced price meals, and the improvement status of schools under No Child Left Behind. Schools are listed as impacted schools if they are more rural, have a higher percentage of economically disadvantaged students, and/or have greater challenges in closing the achievement gap.

Locale codes are used by the National Center for Education Statistics and the US Census Bureau to indicate the urban-rural nature of a school based upon population density and geographic location. The codes range from 11 to 43 based on population density and proximity to an urbanized area. (Appendix A provides an explanation of locale codes.) For this report, a school was assigned 4 "rural isolation" points if it has a locale code of 42-Rural, Distant and 8 points if it has a locale code of 43-Rural, Remote. All other Montana schools have a locale code indicating that the school is located in a small city, suburb, town or rural fringe; these schools were assigned zero points for rural isolation.

The indicator of economic disadvantage that was chosen for this report is the number of Free/Reduced Price Participants as a percentage of total school enrollment. While this indicator has its flaws in that actual participation may fall short of eligibility, especially in the high schools grades, the OPI considers it to be the best and most current indicator of economic disadvantage among the school population. Schools were given a score of 0 to 8 "economic disadvantage" points depending on the percentage of students participating in free/reduced price meals.

The indicator of student achievement that was chosen for this report is the improvement status of schools under No Child Left Behind. Schools were given a score of 0 to 8 "improvement status" points depending on whether the school was identified as in need of improvement for 2007-2008. If a school was not identified as in need of improvement, it is assigned zero improvement status points. If the school was identified as in need of improvement, the improvement status points increase from 1 point for a school in its first year of being identified for improvement to 8 points for a school in restructuring for four or more years.

Table 1 shows the rubric that was used to assign points to each school based on indicators of rural isolation, economic disadvantage, and improvement status.

Table 1. Scoring Rubric for Determining Impacted Schools

Scoring Rubric	Score
Rural Isolation	
Locale Code 13 - Small City	0
Locale Code 22 - Suburb, Mid-Size	0
Locale Code 23 - Suburb, Small	0
Locale Code 31 - Town, Fringe	0
Locale Code 33 - Town, Remote	0
Locale Code 41 - Rural, Fringe	0
Locale Code 42 - Rural, Distant	4
Locale Code 43 - Rural, Remote	8
Economic Disadvantage	
Free/Reduced % >=10%	1
Free/Reduced % >=20%	2
Free/Reduced % >=30%	3
Free/Reduced % >=40%	4
Free/Reduced % >=50%	5
Free/Reduced % >=60%	6
Free/Reduced % >=70%	7
Free/Reduced % >=80%	8
Improvement Status	
School Improvement Year 1	1
School Improvement Year 2	2
School Improvement Year 3 or more	3
Corrective Year 1	4
Restructuring Year 1	5
Restructuring Year 2	6
Restructuring Year 3	7
Restructuring Year 4 or more	8

Any school that has a total score of 11 points or more is listed as an impacted school. There are 327 schools on this list, of which 146 are elementary schools, 106 are middle schools or grade 7/8 schools, and 75 are high schools.

The Montana School for the Deaf and Blind, the Department of Corrections schools (Pine Hills and Riverside), the Montana Youth Challenge Program, and the state's 21 special education cooperatives were automatically added to the list of impacted schools. These entities are likely to employ a significant number of special education teachers (a category that is included in the specific quality educator endorsement areas).

Identification of specific quality educator licensure or endorsement areas

Each fall, schools report to the Office of Public Instruction regarding the challenges facing schools in filling vacancies for teachers, specialists, administrators and licensed professionals. These data are submitted on the Personnel Recruitment and Retention Report. The OPI relied primarily on information submitted by schools through this report to determine the critical shortage areas for licensure and endorsement. Additional

information regarding emergency authorizations, positions filled by improperly assigned or unlicensed educators, and completers of professional educator preparation programs was also used to inform the process.

The OPI looked at three available sources of information related to licensure and endorsement shortage areas:

Personnel Recruitment and Retention Report

This report is completed annually by school districts as part of the Annual Data Collection submitted to the Office of Public Instruction. In this report, school administrators provide an indication of the difficulty they experience in hiring regular education teachers, special education teachers, school administrators, specialists, paraprofessionals, and other support staff. The statewide summary of the Personnel Recruitment and Retention Report for 2007-2008 is shown in Appendix B.

Emergency Authorizations

This report is compiled by the OPI Educator Licensure unit. It lists the number of emergency authorizations approved during the 2007-2008 school year by endorsement area. In accordance with 20-4-111, MCA, a school district may apply to the Superintendent of Public Instruction for an emergency authorization of employment to hire a non-licensed individual as an instructor when the district is unable to find a licensed educator to fill the position. A statewide history of emergency authorizations granted by the state superintendent from 1999-2000 through 2007-2008 is included in Appendix C.

Misassignments Reported by Accredited Schools

"Misassignment" refers to a teacher or administrator who is not assigned at the levels and/or in the subjects for which their license(s) is/are endorsed. The source of personnel assignment data is the Annual Data Collection submitted by school districts and special education cooperatives to the Office of Public Instruction.

The OPI used a weighted score for evaluating the data from the Personnel Recruitment and Retention Report, which involved ranking hiring difficulty based on the degree of difficulty and the number of position vacancies. The degree of hiring difficulty was computed by adding the percentage of positions that were difficult to fill with those that were very hard to fill. This combined percentage was then multiplied by the number of position openings. For example, school districts reported that of the 74 vacancies for Music teachers statewide, 73% of the positions were difficult or very hard to fill. This resulted in a score of 54 points for Music openings.

Some education fields are relatively easy to fill, but because of the large number of openings, the education field receives a high score using the method described above. The most obvious example of this is elementary education. With 508 reported openings in 2007-2008 and 15% of the positions reported as difficult or very hard to fill, the elementary education field receives a weighting of 76.

To prevent an education field from being placed on the critical shortage list based on volume or difficulty alone, four additional criteria were added. For an education field to be included on the list of academic areas impacted by critical quality educator shortages, the education field must meet four conditions:

- At least 25 openings were reported statewide;
- At least 40% of the positions were reported as difficult or very hard to fill;
- The education field had a weighted score of at least 15; and
- The education field requires completion of an accredited professional educator preparation program or other 4-year college program required for licensed professionals.

Based upon the above criteria, the critical quality educator shortage areas for 2007-2008 were Special Education, Music, Mathematics, School Counselor, Speech/Language Pathologist, Science, Library Media, World Languages, Art, and Business.

In 2007-2008, Montana school districts reported 1,800 vacancies for all education fields and reported a total of 506 vacancies in these ten areas.

Table 2. Education Fields Impacted by Critical Quality Educator Shortages in 2007-2008

2007 20					
		Total	Percent Difficult or Very Hard	Weighted	Total FTE
Rank	Education Field	Vacancies ²	to Fill	Score	Employed ³
1	Special Education	107	64%	68	887
2	Music	74	73%	54	364
3	Mathematics	71	59%	42	570
4	School Counselor	48	57%	27	451
5	Speech/Language Pathologist	27	100%	27	178
6	Science	54	48%	26	491
7	Library Media	33	75%	25	381
8	World Languages	33	72%	24	156
9	Art	31	62%	19	222
10	Business	28	64%	18	157

The education fields impacted by critical quality educator shortages have not varied much in the past five years. An analysis of the responses to the Personnel Recruitment and Retention Report over the past five years shows nine of the ten fields as the most critical shortage areas. Art is new to the list for 2007-2008.

² Total vacancies as reported by public school districts, state-funded schools, and special education cooperatives on the Personnel Recruitment and Retention Report for the 2007-2008 Annual Data Collection

³ Total FTE Employed as reported by public school districts, state-funded schools and special education cooperatives on the Personnel Assignment report for the 2007-2008 Annual Data Collection

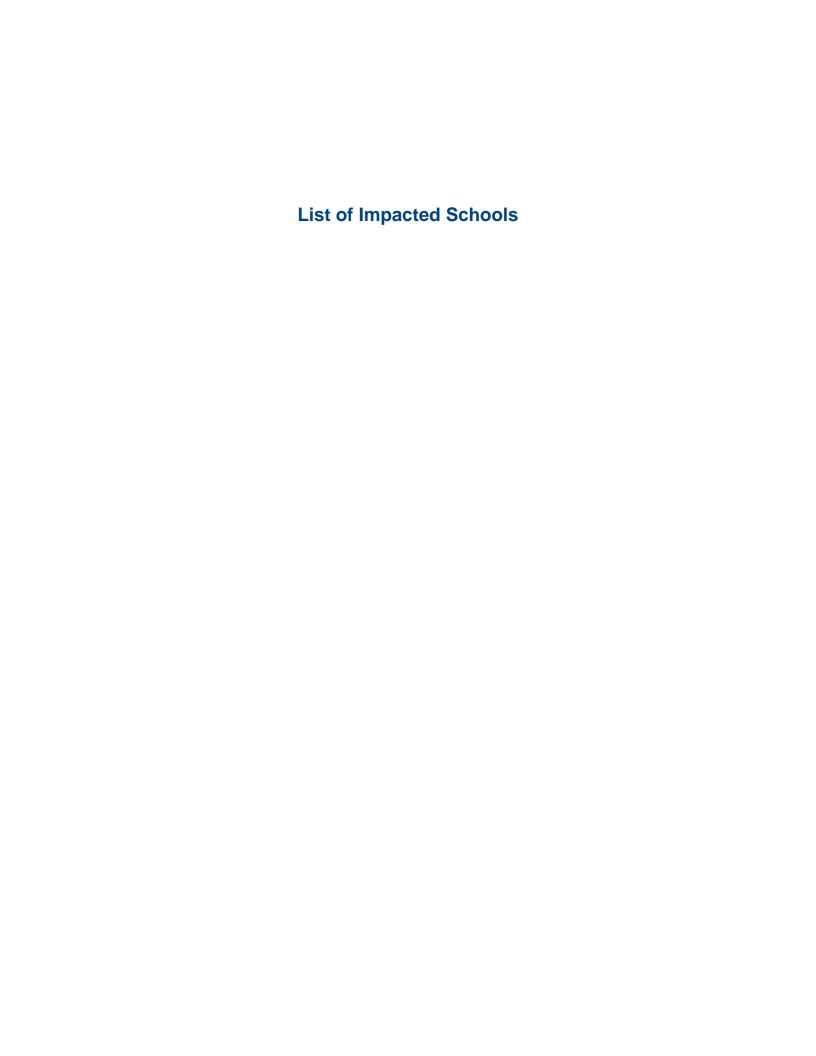
The Personnel Recruitment and Retention Report included a category for "Career and Technical Education." This category is assumed to include positions that may be filled by individuals holding a class 4 career and vocational/technical education license, which does not require completion of a professional educator preparation program. While this education field ranked high among the fields impacted by critical shortages, these individuals may be teaching without completing a professional educator preparation education program or other 4-year program required for professional licensure. Therefore, this education field was not included in the list of critical shortage areas. The report also showed the "Other" category among the most critical shortage areas. Given that there is no detail to identify the education fields included in the "other" category, this education field is not included in the list of shortage areas.

It is important to note that the education fields listed in the Personnel Recruitment and Retention Report do not include every endorsement area or personnel assignment type. The format of the report was developed prior to the passage of SB 2. While the report provides general information about shortage areas, better tools can be developed in the future to identify shortage areas. It should also be noted that the responses from districts are subjective and may not always be complete.

Validation of Measures based upon Independent Data Sources

Section 20-4-111, MCA authorizes the Superintendent of Public Instruction to grant an emergency authorization of employment to an individual who does not hold a valid educator license when a district cannot secure the services of a person holding a valid license. The individual must have previously held a valid educator license or must meet the standards of preparation prescribed by the policies of the Board of Public Education for and during an emergency. Emergency authorizations are only valid for one school fiscal year. The data on emergency authorizations issued since July 1, 2002 validates the critical quality educator shortage areas that are listed in this report. Of the 106 emergency authorizations issued for school fiscal years 2003 through 2008, 75 (71%) were to individuals who taught in one of the ten critical shortage areas listed above.

The personnel assignment information reported by school districts for 2007-2008 through the Annual Data Collection (ADC) also validates the selection of these ten education fields. Of the 152.8 FTE positions that were filled by individuals who did not hold a valid educator license or were misassigned in 2007-2008, 60.7 (40%) of these FTE were teaching in one of the ten education fields listed in this report. These data do not include special education cooperatives, which also experience difficulty hiring educators in the ten identified education fields.



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					Rural Isolation	Disadvantage	Improvement	
County Name	LE	sc	School Name	Grade Type	Score	Score	Score	Total Score
Beaverhead	0003		Grant School	EL	8	8	0	16
Beaverhead	0003		Lima 7-8	GR78	8	7	0	15
Beaverhead	0009		Lima High School	HS	8	5	0	13
Beaverhead	0009		Lima School	EL	8	8	0	16
Beaverhead	MTY	0011	Montana Youth Challenge	LL	0	0	0	11
Big Horn	0023	0033	Crow Agency School	EL	4	8	8	20
Big Horn	0023		Fort Smith School	EL	8	8	0	16
Big Horn	1189		Hardin High School	HS	0	6	5	11
Big Horn	0023		Hardin Intermediate	EL	0	7	4	11
Big Horn	0023		Hardin Middle School	MS	0	6	5	11
Big Horn	0023		Hardin Primary	EL	0	7	4	11
	0025			GR78				24
Big Horn			Lodge Grass 7-8	HS	8	8	8	
Big Horn	1190		Lodge Grass High School		8	8	8	24
Big Horn	0025		Lodge Grass School	EL	8	8	8	24
Big Horn	1214		Plenty Coups High School	HS	4	8	8	20
Big Horn	0021		Pryor 7-8	GR78	4	8	8	20
Big Horn	0021		Pryor Elem School	EL	4	8	1	13
Big Horn	0026		Wyola 7-8	GR78	8	8	0	16
Big Horn	0026	0041	Wyola School	EL	8	8	8	24
Blaine	9689		Bear Paw Cooperative		0	0	0	11
Blaine	0030		Harlem 7-8	GR78	8	6	2	16
Blaine	0030		Harlem Elementary School	EL	8	8	1	17
Blaine	0031		Harlem High School	HS	8	6	0	14
Blaine	0028		Hartland Elementary School	EL	8	8	0	16
Blaine	1213		Hays-Lodge Pole 7-8	GR78	8	8	8	24
Blaine	1213		Hays-Lodge Pole High Sch	HS	8	8	8	24
Blaine	1213		Lodge Pole School	EL	8	8	2	18
Blaine	0028		Meadowlark School	EL	8	3	0	11
Blaine	0044		Turner 7-8	GR78	8	7	0	15
Blaine	0045		Turner High School	HS	8	6	0	14
Blaine	0044		Turner School	EL	8	6	0	14
Blaine	0034	0056	Zurich School	EL	8	5	0	13
Broadwater	0055		Cecelia Hazelton School	EL	8	3	0	11
Broadwater	0055	1671	Townsend 7-8	GR78	8	3	0	11
Carbon	0076	1675	Belfry 7-8	GR78	8	6	0	14
Carbon	0076	0103	Belfry High School	HS	8	5	0	13
Carbon	0076	0102	Belfry School	EL	8	7	0	15
Carbon	0059	1672	Bridger 7-8	GR78	8	4	0	12

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					Rural Isolation	Disadvantage	Improvement	
County Name	LE	sc	School Name	Grade Type	Score	Score	Score	Total Score
Carbon	0073		Edgar Elementary School	EL	4	8	0	12
Carbon	0072		Fromberg High School	HS	8	4	0	12
Carbon	0071		Fromberg School	EL	8	3	0	11
Carbon	0069		Roberts School	EL	8	3	0	11
Carter	0087		Ekalaka 7-8	GR78	8	5	0	13
Carter	0087		Ekalaka Elementary School	EL	8	4	0	12
Cascade	0101		Cascade 7-8	GR78	8	4	0	12
Cascade	0102	0157	Cascade High School	HS	8	3	0	11
Cascade	0101	0158	Cascade School	EL	8	4	0	12
Cascade	1225	0173	Fort Shaw Elem School	EL	8	4	0	12
Cascade	9258	9368	MT Sch For Deaf & Blnd El	EL	0	7	0	11
Cascade	9258		MT Sch For Deaf & Blnd HS	HS	0	5	0	11
Cascade	9699		North Ctrl Learn Res Ctr		0	0	0	11
Cascade	0118	0174	Simms High School	HS	8	5	0	13
Cascade	0127		Vaughn 7-8	GR78	4	7	0	11
Chouteau	0137	1607	Big Sandy 7-8	GR78	8	4	0	12
Chouteau	0138	0195	Big Sandy High School	HS	8	4	0	12
Chouteau	9871		Chouteau Co Joint Service		0	0	0	11
Chouteau	0137	0197	F E Miley School	EL	8	5	0	13
Chouteau	0133	0191	Fort Benton 7-8	GR78	8	3	0	11
Chouteau	0134	0192	Fort Benton High School	HS	8	3	0	11
Chouteau	0133	0190	Fort Benton School	EL	8	5	0	13
Chouteau	0153	1682	Geraldine 7-8	GR78	8	7	0	15
Chouteau	0154	0214	Geraldine High School	HS	8	5	0	13
Chouteau	0153	0213	Geraldine School	EL	8	7	0	15
Chouteau	0145	1681	Highwood Middle School	MS	8	4	0	12
Chouteau	0145	0204	Highwood School	EL	8	3	0	11
Custer	9692		Big Country Coop		0	0	0	11
Daniels	0196	1683	Peerless 7-8	GR78	8	8	0	16
Daniels	0196	0270	Peerless High School	HS	8	8	0	16
Daniels	0196	0269	Peerless School	EL	8	8	0	16
Daniels	0194	1650	Scobey 7-8	GR78	8	4	0	12
Dawson	0227	1686	Richey 7-8	GR78	8	5	0	13
Dawson	0227	0310	Richey School	EL	8	4	0	12
Fergus	1218	1580	Ayers School	EL	8	8	0	16
Fergus	9691		Central Mt Learn Res Ctr		0	0	0	11
Fergus	0281	1690	Denton 7-8	GR78	8	4	0	12
Fergus	0281	0380	Denton School	EL	8	3	0	11

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					Rural Isolation	Disadvantage	Improvement	
County Name	LE	sc	School Name	Grade Type	Score	Score	Score	Total Score
Fergus		1795	Grass Range 7-8	GR78	8	5	0	13
Fergus	0269	0368	Grass Range High School	HS	8	5	0	13
Fergus	0268	0367	Grass Range School	EL	8	6	0	14
Fergus		1688	Moore 7-8	GR78	8	4	0	12
Fergus	0274	0373	Moore High School	HS	8	4	0	12
Fergus	0273	0372	Moore School	EL	8	3	0	11
Fergus	0280	1689	Roy 7-8	GR78	8	6	0	14
Fergus	0280	0378	Roy School	EL	8	5	0	13
Fergus	0291	1691	Winifred 7-8	GR78	8	6	0	14
Fergus	0291	0392	Winifred High School	HS	8	3	0	11
Fergus	0291	0391	Winifred School	EL	8	4	0	12
Flathead	0330	0442	Bigfork School	EL	8	3	0	11
Flathead	0342	1698	Bissell 7-8	GR78	4	7	0	11
Flathead	9695		Flathead County Coop		0	0	0	11
Flathead	0341	1697	Marion 7-8	GR78	8	5	0	13
Flathead	0341	0455	Marion School	EL	8	5	0	13
Flathead	1223	1651	West Glacier School	EL	8	3	0	11
Gallatin	9696		Gallatin/Madison Coop		0	0	0	11
Gallatin	0374	1704	West Yellowstone 7-8	GR78	8	3	0	11
Gallatin	0374	0495	West Yellowstone School	EL	8	4	0	12
Gallatin		1700	Willow Creek 7-8	GR78	8	4	0	12
Gallatin	0355		Willow Creek High School	HS	8	3	0	11
Gallatin		0476	Willow Creek School	EL	8	3	0	11
Garfield		1705	Jordan 7-8	GR78	8	4	0	12
Garfield		0500	Jordan Elementary School	EL	8	4	0	12
Garfield	0394		Ross School	EL	8	8	0	16
Glacier		0537	Babb School	EL	8	7	0	15
Glacier		0543	Browning High School	HS	0	7	8	15
Glacier		1613	Browning Middle School	MS	4	8	8	20
Glacier		0548	East Glacier Park School	EL	8	6	0	14
Glacier		0538	K W Bergan School	EL	0	8	8	16
Glacier		0539	Napi School	EL	4	8	8	20
Glacier		1485	Vina Chattin School	EL	4	8	8	20
Golden Valley		1707	Lavina 7-8	GR78	8	6	0	14
Golden Valley		0556	Lavina High School	HS	8	4	0	12
Golden Valley		0555	Lavina School	EL	8	3	0	11
Golden Valley		1706	Ryegate 7-8	GR78	8	3	0	11
Golden Valley	0407	0551	Ryegate High School	HS	8	4	0	12

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					Rural Isolation	Disadvantage	Improvement	
County Name	LE	SC	School Name	Grade Type	Score	Score	Score	Total Score
Golden Valley	0407		Ryegate School	EL	8	8	0	16
Granite	0419		Drummond School	EL	8	3	0	11
Granite	0416		Granite High School	HS	8	3	0	11
Granite	0416		Philipsburg 7-8	GR78	8	5	0	13
Granite	0416		Philipsburg School	EL	8	3	0	11
Hill	0425		Box Elder 7-8	GR78	8	8	7	23
Hill	0426		Box Elder High School	HS	8	8	0	16
Hill	0425		Box Elder School	EL	8	7	0	15
Hill	0424		Davey Elementary	EL	4	8	0	12
Hill	1217		Gildford Colony School	EL	8	8	0	16
Hill	1233		North Star 7-8	GR78	8	5	0	13
Hill	1234		North Star High School	HS	8	3	0	11
Hill	1233		North Star School	EL	8	7	0	15
Hill	1207		Rocky Boy 7-8	GR78	8	7	8	23
Hill	1229		Rocky Boy High School	HS	8	8	8	24
Hill	1207		Rocky Boy School	EL	8	7	8	23
Jefferson	0456		Boulder 7-8	GR78	8	3	0	11
Jefferson	0456		Boulder Elementary School	EL	8	5	0	13
Jefferson	9034		Riverside Youth Corr Facil El		8	8	0	16
Jefferson	9034		Riverside Youth Corr Facil	HS	8	8	0	16
Jefferson	0453		Whitehall 7-8	GR78	8	6	0	14
Jefferson	0453		Whitehall Elementary	EL	8	3	0	11
Judith Basin	0472	1718	Geyser 7-8	GR78	8	3	0	11
Judith Basin	0473	0627	Geyser High School	HS	8	3	0	11
Judith Basin	0472	0626	Geyser School	EL	8	4	0	12
Judith Basin	0469	1717	Hobson 7-8	GR78	8	3	0	11
Judith Basin	0469	0623	Hobson High School	HS	8	3	0	11
Judith Basin	0469	0622	Hobson School	EL	8	3	0	11
Judith Basin	0464	1716	Stanford 7-8	GR78	8	3	0	11
Judith Basin	0464	0617	Stanford School	EL	8	6	0	14
Judith Basin	0472	1617	Surprise Creek School	EL	8	8	0	16
Lake	1205	1602	Charlo 7-8	GR78	8	5	0	13
Lake	1205	0635	Charlo Elementary	EL	8	4	0	12
Lake	1206	0636	Charlo High School	HS	8	3	0	11
Lake	1199	0639	K William Harvey Elem	EL	8	6	0	14
Lake	1199	0638	Pablo Elementary	EL	8	7	0	15
Lake	1200	0640	Ronan High School	HS	8	4	0	12
Lake	1199	1519	Ronan Middle School	MS	8	5	0	13

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					Rural Isolation	Disadvantage	Improvement	
County Name	LE	sc	School Name	Grade Type	Score	Score	Score	Total Score
Lake	0481	0642	St Ignatius Elementary	EL	8	8	0	16
Lake	0481	0643	St Ignatius High School	HS	8	5	0	13
Lake	0481	1719	St Ignatius Middle School	MS	8	5	0	13
Lewis & Clark	0502	1722	Augusta 7-8	GR78	8	4	0	12
Lewis & Clark	0502	0676	Augusta Elementary School	EL	8	5	0	13
Lewis & Clark	0503	0677	Augusta High School	HS	8	4	0	12
Lewis & Clark	1221	1721	Lincoln 7-8	GR78	8	4	0	12
Lewis & Clark	1221	0675	Lincoln Elementary School	EL	8	6	0	14
Lewis & Clark	1221	1610	Lincoln High School	HS	8	4	0	12
Lewis & Clark	9697		Prickly Pear Coop		0	0	0	11
Lewis & Clark	0495	0668	Wolf Creek School	EL	8	4	0	12
Lincoln	0527	0710	Eureka Elementary School	EL	8	7	0	15
Lincoln	0529	0712	Fortine School	EL	8	6	0	14
Lincoln	0528	0711	Lincoln Co High School	HS	8	4	0	12
Lincoln	0534	0717	Trego School	EL	8	7	0	15
Lincoln	0519	1663	Troy 7-8	GR78	8	5	0	13
Lincoln	0520	0697	Troy High School	HS	8	4	0	12
Lincoln	0519		W F Morrison School	EL	8	7	0	15
Madison	0536	0719	Alder School	EL	8	5	0	13
Madison	0546		Ennis 7-8	GR78	8	4	0	12
Madison	0543		Harrison 7-8	GR78	8	4	0	12
Madison	0543	0727	Harrison High School	HS	8	3	0	11
Madison	0543		Harrison School	EL	8	3	0	11
Madison	0537	1725	Sheridan 7-8	GR78	8	3	0	11
Madison	0537		Sheridan Elementary Schl	EL	8	6	0	14
Madison	0540		Twin Bridges 7-8	GR78	8	3	0	11
Madison		0724	Twin Bridges High School	HS	8	3	0	11
Madison	0540		Twin Bridges School	EL	8	3	0	11
McCone	0547		Bo Peep School	EL	8	6	0	14
McCone	0548	0733	Circle High School	HS	8	3	0	11
McCone	9701		Prairie View Coop		0	0	0	11
McCone	0547		Redwater 7-8	GR78	8	3	0	11
McCone	0547		Redwater School	EL	8	3	0	11
Meagher	0569		White Sulphur Springs 7-8	GR78	8	3	0	11
Meagher	0569		White Sulphur Springs El	EL	8	6	0	14
Meagher	0570	0759	White Sulphur Springs HS	HS	8	4	0	12
Mineral		1732	St Regis 7-8	GR78	8	8	0	16
Mineral	0582	0771	St Regis High School	HS	8	8	0	16

	I			T The state of the	a by Ontioar G	Economic	lor Oriortagoe	2007 2000
					Rural Isolation	Disadvantage	Improvement	
County Name	LE	sc	School Name	Grade Type	Score	Score	Score	Total Score
Mineral	0582		St Regis School	EL	8	6	0	14
Mineral	0579	1731	Superior 7-8	GR78	8	5	0	13
Mineral	0579	0767	Superior Elementary	EL	8	8	0	16
Mineral	0579		Superior High School	HS	8	4	0	12
Missoula	9698		Missoula Area Coop		0	0	0	11
Missoula	0597	1740	Seeley Lake 7-8	GR78	8	4	0	12
Missoula	0597	0801	Seeley Lake Elementary	EL	8	6	0	14
Missoula	0584	1434	Seeley-Swan High School	HS	8	3	0	11
Musselshell	0605	0809	Central School	EL	8	5	0	13
Musselshell	0607	1742	Melstone 7-8	GR78	8	3	0	11
Musselshell	0608	0813	Melstone High School	HS	8	3	0	11
Musselshell	0607	0812	Melstone School	EL	8	5	0	13
Musselshell	0605	1644	Roundup 7-8	GR78	8	4	0	12
Musselshell	0606	0811	Roundup H S	HS	8	4	0	12
Park	1215	1821	Arrowhead 7-8	GR78	8	4	0	12
Park	1215	1564	Arrowhead School	EL	8	3	0	11
Park	9700		Park County Coop		0	0	0	11
Park	1227	1797	Shields Valley 7-8	GR78	8	3	0	11
Petroleum	0642	1744	Winnett 7-8	GR78	8	7	0	15
Petroleum	0642	0853	Winnett High School	HS	8	6	0	14
Petroleum	0642	0852	Winnett School	EL	8	8	0	16
Phillips	0647	1745	Dodson 7-8	GR78	8	8	0	16
Phillips	0648	0863	Dodson High School	HS	8	8	0	16
Phillips	0647	0862	Dodson School	EL	8	8	1	17
Phillips	0659	1605	Loring Colony School	EL	8	8	0	16
Phillips	0659	1505	Malta 7-8	GR78	8	4	0	12
Phillips	0659	0875	Malta High School	HS	8	4	0	12
Phillips	0659	1504	Malta K-6	EL	8	5	0	13
Phillips	1203	1746	Saco 7-8	GR78	8	5	0	13
Phillips	0657	0873	Saco High School	HS	8	4	0	12
Phillips	1203	0872	Saco School	EL	8	6	0	14
Phillips	0663	1747	Whitewater 7-8	GR78	8	5	0	13
Phillips	0663	0879	Whitewater High School	HS	8	3	0	11
Phillips	0663	0878	Whitewater School	EL	8	5	0	13
Phillips	0659	1590	Zortman Grade School	EL	8	8	0	16
Pondera	9755		Big Sky SE Coop		0	0	0	11
Pondera	0671		Dupuyer School	EL	8	8	0	16
Pondera	1226	1748	Heart Butte 7-8	GR78	8	8	8	24

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					Rural Isolation	Disadvantage	Improvement	
County Name	LE	sc	School Name	Grade Type	Score	Score	Score	Total Score
Pondera	1226		Heart Butte Elementary	EL	8	8	0	16
Pondera	1226		Heart Butte High School	HS	8	6	8	22
Pondera	0679		Valier 7-8	GR78	8	4	0	12
Pondera	0680		Valier High School	HS	8	4	0	12
Pondera	0679		Valier School	EL	8	5	0	13
Powder River	0705		Broadus 7-8	GR78	8	3	0	11
Powder River	0705		Broadus School	EL	8	4	0	12
Powder River	9705	0000	Tri County Coop		0	0	0	11
Powell	0719	0947	Elliston School	EL	8	6	0	14
Powell	9703	0011	Great Divide Educ Serv		0	0	0	11
Prairie	0726	1752	Terry 7-8	GR78	8	3	0	11
Prairie	0726		Terry School	EL	8	4	0	12
Ravalli	9690		Bitterroot Valley Coop		0	0	0	11
Ravalli	0740	1608	Darby 7-8	GR78	8	4	0	12
Ravalli	0740		Darby High School	HS	8	3	0	11
Ravalli	0740		Darby School	EL	8	4	0	12
Ravalli	0738		Victor High School	HS	8	4	0	12
Ravalli	0738		Victor Middle School	MS	8	4	0	12
Ravalli	0738		Victor School	EL	8	6	0	14
Richland	0750		Fairview 7-8	GR78	8	3	0	11
Richland	0751		Fairview High School	HS	8	3	0	11
Richland	0750		Fairview School	EL	8	4	0	12
Richland	0768	1756	Lambert 7-8	GR78	8	3	0	11
Roosevelt	0785	1760	Bainville 7-8	GR78	8	3	0	11
Roosevelt	0785	1027	Bainville School	EL	8	4	0	12
Roosevelt	0782	1759	Barbara Gilligan 7-8	GR78	8	8	8	24
Roosevelt	0782	1025	Barbara Gilligan School	EL	8	8	0	16
Roosevelt	0783	1026	Brockton High School	HS	8	8	8	24
Roosevelt	0777	1758	Culbertson 7-8	GR78	8	3	0	11
Roosevelt	0777	1017	Culbertson School	EL	8	4	0	12
Roosevelt	0786	1761	Froid 7-8	GR78	8	4	0	12
Roosevelt	0786	1029	Froid Elementary School	EL	8	7	0	15
Roosevelt	0780	1022	Northside School	EL	0	7	6	13
Roosevelt	0775		Poplar 5-6 School	EL	8	8	8	24
Roosevelt	0775	1550	Poplar 7-8	GR78	8	8	8	24
Roosevelt	0776	1016	Poplar High School	HS	8	8	8	24
Roosevelt	0775	1015	Poplar School	EL	8	8	4	20
Roosevelt	9801		Roose-Valley Sp Ed Coop		0	0	0	11

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					Rural Isolation	Disadvantage	Improvement	
County Name	LE	sc	School Name	Grade Type	Score	Score	Score	Total Score
Roosevelt		1020	Southside School	EL	0	8	4	12
Roosevelt		1532	Wolf Point 7-8	GR78	0	7	5	12
Rosebud		1763	Ashland 7-8	GR78	8	8	1	17
Rosebud		1043	Ashland School	EL	8	8	2	18
Rosebud		1033	Forsyth Elementary School	EL	8	3	0	11
Rosebud		1626	Lame Deer 7-8	GR78	8	8	8	24
Rosebud		1816	Lame Deer High School	HS	8	8	8	24
Rosebud	0792	1035	Lame Deer School	EL	8	8	8	24
Rosebud	0796	1603	Pine Butte Elementary Sch	EL	8	3	0	11
Rosebud	0794	1762	Rosebud 7-8	GR78	8	6	0	14
Rosebud	0795	1038	Rosebud High School	HS	8	7	0	15
Rosebud	0794	1470	Rosebud School	EL	8	7	0	15
Sanders	0813	1056	Camas Prairie School	EL	8	8	0	16
Sanders	0809	1824	Dixon 7-8	GR78	8	8	0	16
Sanders	0809	1052	Dixon Elementary	EL	8	8	0	16
Sanders	0814	1766	Hot Springs 7-8	GR78	8	6	0	14
Sanders	0815	1058	Hot Springs High School	HS	8	6	0	14
Sanders	0814	1057	Hot Springs School	EL	8	6	0	14
Sanders	0811	1765	Noxon 7-8	GR78	8	3	0	11
Sanders	0812	1055	Noxon High School	HS	8	4	0	12
Sanders	0811	1054	Noxon School	EL	8	4	0	12
Sanders	0808	1051	Paradise School	EL	8	7	0	15
Sanders	0802	1627	Plains 7-8	GR78	8	5	0	13
Sanders	0802	1045	Plains Elementary School	EL	8	5	0	13
Sanders		1046	Plains High School	HS	8	4	0	12
Sanders	9702		Sanders County Coop		0	0	0	11
Sanders	0804	1764	Thompson Falls 7-8	GR78	8	5	0	13
Sanders	0804	1047	Thompson Falls Elem Schl	EL	8	6	0	14
Sanders	0805	1048	Thompson Falls High Schl	HS	8	3	0	11
Sanders		1820	Trout Creek 7-8	GR78	8	8	0	16
Sanders		1050	Trout Creek School	EL	8	6	0	14
Sheridan		1662	Medicine Lake 7-8	GR78	8	4	0	12
Sheridan		1065	Medicine Lake High School	HS	8	3	0	11
Sheridan		1064	Medicine Lake School	EL	8	4	0	12
Sheridan		1768	Plentywood 7-8	GR78	8	3	0	11
Sheridan	0828		Plentywood High School	HS	8	3	0	11
Sheridan		1070	Plentywood School	EL	8	3	0	11
Sheridan	9693		Sheridan/Daniels Coop		0	0	0	11

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					Rural Isolation	Disadvantage	Improvement	
County Name	LE	sc	School Name	Grade Type	Score	Score	Score	Total Score
Sheridan	0819		Westby High School	HS	8	3	0	11
Sheridan	0819	1061	Westby School	EL	8	4	0	12
Stillwater		1774	Rapelje 7-8	GR78	8	6	0	14
Stillwater	0858	1122	Rapelje School	EL	8	6	0	14
Stillwater	0850	1113	Reed Point Elementary	EL	8	3	0	11
Stillwater	9704		Stillwater/Swt Grass Coop		0	0	0	11
Teton	0883	1777	Choteau 7-8	GR78	8	3	0	11
Teton	0883	1147	Choteau School	EL	8	3	0	11
Teton	1235	1156	Dutton/Brady Elementary	EL	8	6	0	14
Teton	1235	1157	Dutton/Brady High School	HS	8	5	0	13
Teton	1235	1750	Dutton/Brady Middle School	GR78	8	5	0	13
Teton	0890	1778	Fairfield 7-8	GR78	8	5	0	13
Teton	0890	1154	Fairfield Elementary School	EL	8	3	0	11
Teton	0900	1165	Greenfield School	EL	8	3	0	11
Teton	0894	1780	Power 7-8	GR78	8	3	0	11
Toole	0910	1832	Cam Rose School	EL	8	8	0	16
Toole	0903	1167	Sunburst Elementary	EL	8	6	0	14
Toole	0903	1781	Sunburst Middle School	MS	8	5	0	13
Treasure	0923	1782	Hysham 7-8	GR78	8	4	0	12
Treasure	0923	1194	Hysham High School	HS	8	5	0	13
Treasure	0923	1193	Hysham School	EL	8	6	0	14
Valley	0927	1783	Frazer 7-8	GR78	8	8	8	24
Valley	0927	1205	Frazer Elementary	EL	8	8	8	24
Valley	0928	1208	Frazer High School	HS	8	8	8	24
Valley	0932	1784	Hinsdale 7-8	GR78	8	3	0	11
Valley		1213	Hinsdale High School	HS	8	5	0	13
Valley	0932	1212	Hinsdale School	EL	8	5	0	13
Valley	0941	1223	Lustre School	EL	8	4	0	12
Valley	0937	1786	Nashua 7-8	GR78	8	6	0	14
Valley	0937		Nashua High School	HS	8	3	0	11
Valley	0937	1218	Nashua School	EL	8	5	0	13
Valley	0935	1785	Opheim 7-8	GR78	8	5	0	13
Valley		1214	Opheim School	EL	8	5	0	13
Wheatland		1230	Harlowton High School	HS	8	4	0	12
Wheatland	0945		Hillcrest 7-8	GR78	8	5	0	13
Wheatland		1228	Hillcrest School	EL	8	6	0	14
Wheatland		1788	Judith Gap 7-8	GR78	8	3	0	11
Wheatland	0948	1232	Judith Gap School	EL	8	4	0	12

County Name	LE	SC	School Name	Grade Type	Rural Isolation Score	Economic Disadvantage Score	Improvement Score	Total Score
Wibaux	0964	1789	Wibaux 7-8	GR78	8	3	0	11
Wibaux	0964	1238	Wibaux Elementary School	EL	8	4	0	12
Wibaux	0964	1239	Wibaux High School	HS	8	3	0	11
Yellowstone	0975	1289	Custer High School	HS	8	3	0	11
Yellowstone	0975	1288	Custer School	EL	8	3	0	11
Yellowstone	9694		Eastern Yellowstone Coop		0	0	0	11
Yellowstone	9707		Yellowstone/W Carbon Coop		0	0	0	11

Appendix A – Locale Codes

What are locale codes?

"Locale codes" are derived from a classification system originally developed by NCES in the 1980's to describe a school's location ranging from "large city" to "rural." The codes are based on the physical location represented by an address that is matched against a geographic database maintained by the Census Bureau. This database is the Topographically Integrated and Geographically Encoded Referencing system, or TIGER. In 2005 and 2006, NCES supported work by the Census Bureau to redesign the original locale codes in light of changes in the U.S. population and the definition of key geographic concepts.

The locale codes are based on an address's proximity to an urbanized area (a densely settled core with densely settled surrounding areas). The urban-centric locale code system classifies territory into four major types: city, suburban, town, and rural. Each type has three subcategories. For city and suburb, these are gradations of size – large, midsize, and small. Towns and rural areas are further distinguished by their distance from an urbanized area. They can be characterized as fringe, distant, or remote.

How are locale codes assigned to school districts?

A school district's locale code is not assigned on the basis of the central office address. It is derived from the locale codes of the schools in the district. If 50 percent or more of the public school students attend schools with the same locale code, that locale code is assigned to the district. For example, if 60 percent of students were enrolled in schools with a "rural - distant" locale code, and 40 percent were enrolled in schools with a "town - small" locale code, the district would be assigned a "rural – distant" locale code. If no single locale code accounts for 50 percent of the students, then the major category (city, suburb, town, or rural) with the greatest percent of students determines the locale; the locale code assigned is the smallest or most remote subcategory for that category.

Urban-Centric Locale Codes

11 - City, Large:

Territory inside an urbanized area and inside a principal city with population of 250,000 or more.

12 - City, Midsize:

Territory inside an urbanized area and inside a principal city with population less than 250,000 and greater than or equal to 100,000.

13 - City, Small:

Territory inside an urbanized area and inside a principal city with population less than 100,000.

21 - Suburb, Large:

Territory outside a principal city and inside an urbanized area with population of 250,000 or more.

22 - Suburb, Midsize:

Territory outside a principal city and inside an urbanized area with population less than 250,000 and greater than or equal to 100,000.

23 - Suburb, Small:

Territory outside a principal city and inside an urbanized area with population less than 100,000.

31 - Town, Fringe:

Territory inside an urban cluster that is less than or equal to 10 miles from an urbanized area.

32 - Town, Distant:

Territory inside an urban cluster that is more than 10 miles and less than or equal to 35 miles from an urbanized area.

33 - Town, Remote:

Territory inside an urban cluster that is more than 35 miles from an urbanized area.

41 - Rural, Fringe:

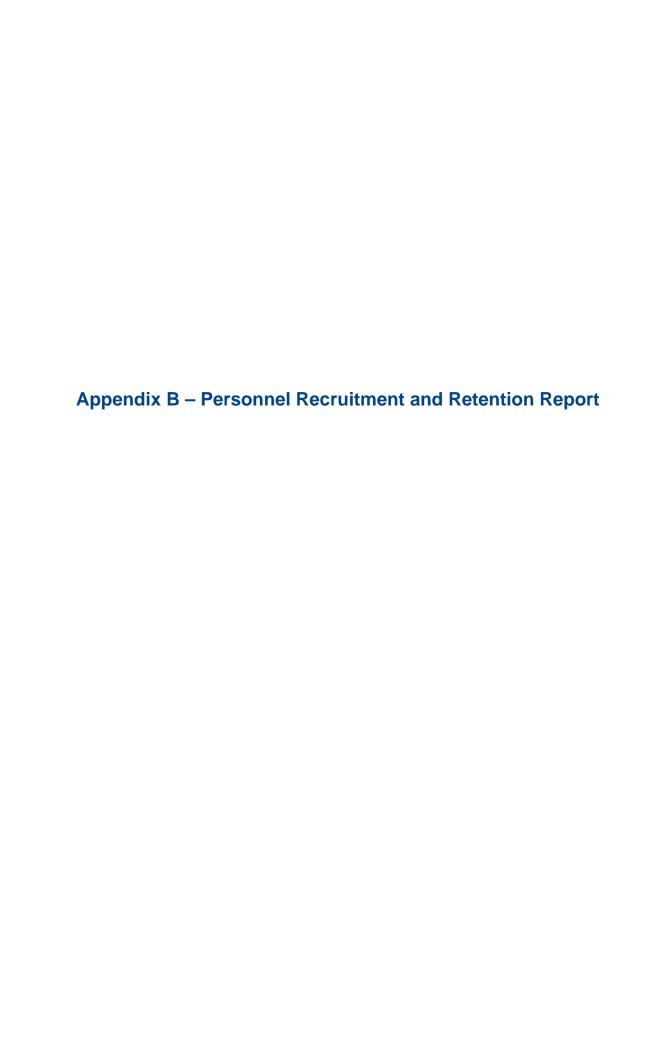
Census-defined rural territory that is less than or equal to 5 miles from an urbanized area, as well as rural territory that is less than or equal to 2.5 miles from an urban cluster.

42 - Rural, Distant:

Census-defined rural territory that is more than 5 miles but less than or equal to 25 miles from an urbanized area, as well as rural territory that is more than 2.5 miles but less than or equal to 10 miles from an urban cluster.

43 - Rural, Remote:

Census-defined rural territory that is more than 25 miles from an urbanized area and is also more than 10 miles from an urban cluster.



Personnel Recruitment and Retention Report 2007-2008 School Year

Education Field	Openings	Easy	Possible	Difficult	Very Hard
Teachers		-			-
Applied Technology	9	11%	0%	89%	0%
Art	31	10%	29%	52%	10%
Business and related	28	14%	21%	43%	21%
Career & Technical Education	36	0%	8%	61%	31%
Computer	6	17%	17%	50%	17%
Elementary	508	49%	36%	14%	1%
English	90	26%	41%	29%	4%
Family Consumer Science	20	0%	10%	60%	30%
Gifted and Talented	6	50%	33%	17%	0%
Health Enhancement	36	44%	36%	14%	6%
History	20	35%	25%	40%	0%
Mathematics	71	18%	23%	51%	8%
Music	74	3%	24%	50%	23%
Other	51	25%	39%	29%	6%
Reading	10	30%	50%	20%	0%
Science	54	15%	37%	41%	7%
Social Studies	20	55%	35%	10%	0%
Special Education	107	8%	28%	57%	7%
World Languages	33	6%	21%	45%	27%
Education Field	Openings	Easy	Possible	Difficult	Very Hard
Support Staff/Administrators					-
Curriculum/Assessment Coord	7	0%	29%	71%	0%
Instructional Paraprofessional	112	34%	29%	35%	2%
Library Media					
	33	3%	21%	48%	27%
Other Admin	33 21	3% 33%	21% 57%	48% 10%	27% 0%
-					
Other Admin	21	33%	57%	10%	0%
Other Admin Other Support	21 63	33% 29%	57% 33%	10% 24%	0% 14%
Other Admin Other Support Principal - Elementary	21 63 35	33% 29% 26%	57% 33% 60%	10% 24% 14%	0% 14% 0%
Other Admin Other Support Principal - Elementary Principal - High School	21 63 35 19	33% 29% 26% 0%	57% 33% 60% 68%	10% 24% 14% 32%	0% 14% 0% 0%
Other Admin Other Support Principal - Elementary Principal - High School Principal - Middle Grades	21 63 35 19 9	33% 29% 26% 0% 33%	57% 33% 60% 68% 33%	10% 24% 14% 32% 33%	0% 14% 0% 0% 0%
Other Admin Other Support Principal - Elementary Principal - High School Principal - Middle Grades Psychologist	21 63 35 19 9	33% 29% 26% 0% 33% 0%	57% 33% 60% 68% 33% 50%	10% 24% 14% 32% 33% 25%	0% 14% 0% 0% 0% 25%
Other Admin Other Support Principal - Elementary Principal - High School Principal - Middle Grades Psychologist School Counselor	21 63 35 19 9 8 48	33% 29% 26% 0% 33% 0% 13%	57% 33% 60% 68% 33% 50% 31%	10% 24% 14% 32% 33% 25% 44%	0% 14% 0% 0% 0% 25% 13%
Other Admin Other Support Principal - Elementary Principal - High School Principal - Middle Grades Psychologist School Counselor Superintendent Education Field	21 63 35 19 9 8 48 24	33% 29% 26% 0% 33% 0% 13%	57% 33% 60% 68% 33% 50% 31% 54%	10% 24% 14% 32% 33% 25% 44% 33%	0% 14% 0% 0% 0% 25% 13% 0%
Other Admin Other Support Principal - Elementary Principal - High School Principal - Middle Grades Psychologist School Counselor Superintendent Education Field Special Education	21 63 35 19 9 8 48 24 Openings	33% 29% 26% 0% 33% 0% 13% 13%	57% 33% 60% 68% 33% 50% 31% 54%	10% 24% 14% 32% 33% 25% 44% 33%	0% 14% 0% 0% 0% 25% 13% 0% Very Hard
Other Admin Other Support Principal - Elementary Principal - High School Principal - Middle Grades Psychologist School Counselor Superintendent Education Field Special Education Audiologist	21 63 35 19 9 8 48 24 Openings	33% 29% 26% 0% 33% 0% 13% 13% Easy	57% 33% 60% 68% 33% 50% 31% 54% Possible	10% 24% 14% 32% 33% 25% 44% 33% Difficult	0% 14% 0% 0% 0% 25% 13% 0% Very Hard
Other Admin Other Support Principal - Elementary Principal - High School Principal - Middle Grades Psychologist School Counselor Superintendent Education Field Special Education	21 63 35 19 9 8 48 24 Openings	33% 29% 26% 0% 33% 0% 13% 13%	57% 33% 60% 68% 33% 50% 31% 54%	10% 24% 14% 32% 33% 25% 44% 33%	0% 14% 0% 0% 0% 25% 13% 0% Very Hard

Other Special Ed Non- Professional Staff	19	47%	26%	26%	0%
Other Special Ed Professional Staff	26	4%	27%	58%	12%
Physical Therapist	1	0%	0%	100%	0%
School Nurse	6	17%	17%	33%	33%
Special Ed Director	8	25%	38%	25%	13%
Special Ed Instructional Paraprofessional	108	17%	44%	39%	1%
Speech/Language Pathologist	27	0%	0%	44%	56%

Appendix C – Emergency Authorizations for Employment

Emergency Authorizations for Employment by Endorsement - School Fiscal Years 2003-2008

	<u>, , , , , , , , , , , , , , , , , , , </u>						6-	
	FY	FY	FY	FY	FY	FY	Year	
Endorsement	2003	2004	2005	2006	2007	2008	Total	
Agriculture	1				2		3	
Art K-12	1			1	1		3	
Biology	1		1	1			3	
Broadfield Science	2					3	5	
Broadfield Social Studies	2		1				3	
Business Education	1		1	1			3	
Computer Science K-12			2				2	
Drama			1				1	
Elementary	3		1	1			5	
English	1	1				1	3	
Family & Consumer Sciences	1		3	2			6	
History	1						1	
Industrial Arts							0	
Mathematics 5-12	3	1	6	1			11	
Music K- 12	5	3	3	4			15	
PE/Health K-12	1						1	
Principal K-12	1						1	
School Counseling K-12	1	2	5	3	1	2	14	
Special Education P-12	3		1	1			5	
Technology Education	1					1	2	
Trade & Industry - Health								
Occupations							0	
Trade and Industry - Automotive				1			1	
World Language - French K-12	3	1	1				5	
World Language - Japanese K-12		1	1	1			3	
World Language - Latin K-12			1	2			3	
World Language - Spanish K-12	3	1	2	1			7	
Total	35	10	30	20	4	7	106	

Of the 106 emergency authorizations for employment granted by the Superintendent of Public Instruction for school fiscal years 2003 through 2008, 75 (71%) were to individuals who taught in one of the eleven critical shortage areas identified in this report.